

Survey 4/13/74  
McDonald

Red Stone Arsenal NASA area:

1. Unnumbered - A view looking SE toward NASA Hdq. Building 4200.  
The large buildings and the two adjacent ones had damage to their curtain walls from the tornado.
- 2&3 Close up of damage to Building 4200
4. A view of NASA building \_\_\_\_\_. This building lost its roofing material and is located SW of building 42000. There was no obvious structural damage. I also have an 8 x 10 B/W of this building.
5. A view looking N at the NASA complex. Note the plywood panels on windows on the building in the background.
6. A view looking N toward Madkin Mt. The tornado was traveling approximately NE and passed over this Mt. (hill might be a better word). After getting to the other side of Mt. in this view, I see that the tract ~~xx~~ is to the right of the Mts. with the tower on top.
7. This is a view looking SW along the tornado track in the opposite direction that it was traveling. The tornado came over the mountain along a path in the center of the photo. There is no obvious damage to trees on the mountain itself. The damage is first observed at about the point where photo was taken. There was a mobile home destroyed just to left of photographer and slightly behind.
8. View of a broken elevated steam line. There are many of these lines, some much larger located all over the RSA (?) grounds.
9. A view looking backwards along the path showing tree damage and



- debris. Note the military type barracks building in the background.
- 10&11 Shows some large cedar type bushes which have been uprooted. These would provide a lot of exposed area to the wind. They appear to be 15-20 ft tall and were growing very close together in a thicket. Large pieces of sheet metal were also found scattered among the trees. Just across the road to the north there was an area which had many small pine tree seedlings about 3ft tall. Some of these were broken off near ground level.
12. A view looking N of a military warehouse type building of timber construction. There appears to have been a missile impact in the roof of this building. There was a building just this side of the one in the photo which was apparently completely destroyed. All the debris has been hauled away and only the foundation remains. There was a railroad spur line to the south of the building so it must have been some type of warehouse building.
- 13&14 Took two shots from inside of the building showing the missile impact on the roof. The missile was not present, but it obviously did not come all the way through to the floor below. I speculate that it was a large piece of roof. This is building 3460.
15. A view looking N at building 3435. This is a three story brick building. Appears to be apartments or dormitory. Some of the brick came off and there appears to be extensive window damage. There is a tremendous amount of small pieces of debris downwind from the building. The debris consists of small pieces of wood, roofing material, tree limbs and pieces of sheetmetal. I can't tell for sure if the building lost its roof.
16. Just behind the building is a sort of courtyard a building which



would be facing the windward face of the wind lost windward walls and its roof.

17. A view looking NE at a military type building.

- 18&19 A view S of a large gable frame building that was completely  
(wa) destroyed. Building appears to have been a gymnasium. It was of steel construction. Steel gable frame spaced about 12-14 ft o.c. Spacing 50-60 ft. Had some high windows. Was covered with some type of steel insulated deck. Much of this deck has blown away. The frames themselves have twisted and collapsed.

20. A view of the same building from the other side looking N. Note the buckled purlins.

21. Note the twisted gable frames. Storm path crossed Martin Rd. .5 miles from gate 7 - 10" diameter pine trees snapped off - 4 ft above ground.

Bldg.  
3474  
Definitely  
a gym.



Survey 4/13/79  
McDonald, ~~Winnipeg~~

30.25  
31.65  
.9 min  
32.15

### Red Stone Arsenal NASA area:

- ① Unnumbered - A view looking SE toward NASA Hdg. bldg. 4200. The large bldg and the two adjacent ones had damage to their curtain walls from the tornado.
- ②③ Close up of damage to bldg. 4200
- ④ A view of NASA bldg. 4201. This bldg lost its roofing material and is located SW of bldg 4200. There was no obvious structural damage. I also have an 8x10 B.W. of this bldg.
- ⑤ A view looking N at the NASA complex. Note the plywood panels on windows on the bldg. in the background.
- ⑥ A view looking N toward Mathis Mt. The tornado was traveling approx. NE and passed over this mt. (hill might be a better word). — after getting to other side of mt. in this view I see that the tract is to the right of the mt. with the tower on top.
- ⑦ This is a view looking SW along the Tornado Tract in the opposite direction that it was traveling. The tornado came over the mt. along a path in the center of the photo. There is no obvious damage to trees on



the mt. itself. The damage is first observed at about the point where photo was taken. There was a mobile home destroyed just to left of photographer and slightly behind.

- ⑧ View of a broken elevated steam line. There are many of these lines, some much longer located all over the NSA grounds.
- ⑨ Overview looking backwards along the path showing tree damage and debris. Note the military type barrack bldg in the background.
- ⑩ ⑪ Shows some large cedar type bushes which have been uprooted. These would provide a lot of exposed area to the wind. They appear to be 15-20 ft tall and were growing very close together in a thicket. Large pieces of sheet metal were also found scattered among the trees. Just across the road to the north there was an area which had many small pine tree seedlings about 3 ft tall. Some of these were broken off near ground level.
- ⑫ A view looking N of a military warehouse type building of timber construction. There appears to have been a missile impact in the roof of this bldg. The was



a bldg. just this side of the one in the photo which was apparently completely destroyed. all the debris has been hauled away and only the foundation remains. there was a rail road spur line to the south of the building so it must have been some type of warehouse building.

(13)(14) took two shots from inside of the bldg. showing the missile impact on the roof.

The missile was not present, but it obviously did not come all the way through to the floor below. I speculate that it was a large piece of roof. This is bldg 3460.

(15) A view looking N at Bldg. 3435. This is a three story brick bldg. appears to be apartments or dormitory. Some of the brick came off and there appears to be extensive window damage.

There is a tremendous amount of small pieces of debris downwind from this bldg. The debris consists of small pieces of wood, roofing material, tree limbs and pieces of sheetmetal. I can't tell for sure if the bldg. lost its

(16) roof. Just ~~behind~~ behind the bldg. in a sort of court yard a building which would be facing the windward face of the wind lost windward walls and its roof.

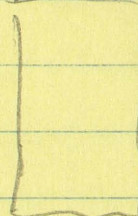
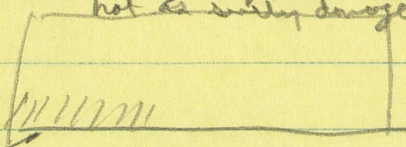


(17)

a view looking NE of a military type bldg.

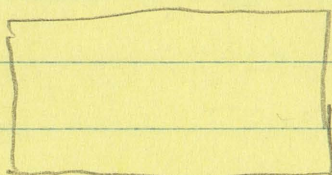
(There is a similar completed just above here not as badly damaged.)

Down to roof & walls



(17)

35 long chimney  
Winds, door, tank  
back @ storage



Down to where  
and walls

N

(15)

(16)

storm path

(18) (19)  
W.A.

Bldg  
3474

Definitely  
a Gym.

a view S of a large gable frame bldg. that was completely destroyed. Bldg. appears to have been a gymnasium. It was of steel construction. Steel gable frame spaced about 12-14' o.c. spanning 50-60 ft. Had some high windows. Was covered with some type of steel insulated deck. Much of this deck has blown away. The frames themselves have twisted and collapsed.

(20)

a view of the same bldg from the other side looking N. Note the buckled purlins

(21)

Note the twisted gable frames



Stam path crossed Montic rd. .5 mile  
from gate 7 10"  $\phi$  pine tree mopped  
off 4' above ground.